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## **CLAIMS**

1. Refrigerating appliance (1), especially a refrigerator or freezer (1), comprising an interior (3) and an internal lighting system, characterised in that the internal lighting system comprises at least one organic lightemitting diode (OLED) (30, 130, 230) which illuminates the interior (3).

- 2. The refrigerating appliance (1) according to claim 1, characterised in that the OLED (30, 130, 23) is mounted on an inner wall (5, 6, 8, 9, 10) of the appliance or on a built-in component (13, 14, 15) located in the appliance (1), especially a base plate (13), a shell (14) or a door compartment (15).
- 3. The refrigerating appliance (1) according to claim 2, characterised in that the built-in component (13, 14, 15) of the appliance comprises opposite surfaces (17m 18), in the case of the base plate an underside (18) and an upper side (17), wherein respectively one organic light-emitting diode (130, 230) is applied to the opposite surfaces (17, 18).
- 4. The refrigerating appliance (1) according to claim 1, characterised in that the refrigerating appliance (1) comprises a housing (2) with a cavity (42) filled with an insulating material (38), wherein the at least one OLED (30) forms a wall (5, 6) of the cavity (42) facing the interior (3) of the appliance (1).
- 5. The refrigerating appliance (1) according to claim 1, characterised in that the at least one OLED (130, 230) in a built-in component (13, 14, 15) located in the appliance (1), especially a base plate (13), a shell (14) or a door compartment (15), is integrated in its wall (16).
- 6. The refrigerating appliance (1) according to any one of claims 1 to 4, characterised in that the at least one OLED (30, 230) comprises a luminous area (31) which fills at least 20%, especially at least 50%, of the inner wall (5, 6, 8, 9, 10) of the appliance (1) and/or the underside (18) or upper side (17) of a base plate (13) located in the interior (3) of the appliance (1).

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- 7. The refrigerating appliance (1) according to claim 5, characterised in that the luminous area (31) of the at least one OLED (30, 230) completely fills at least one inner wall (5, 6, 8, 9, 10) of the appliance (1) and/or at least one underside (18) or upper side (17) of a base plate (13) located in the appliance (1).
- 8. The refrigerating appliance (1) according to claim 6 or claim 7, characterised in that the luminous area (31) is located on at least one of the following inner walls of the appliance: the rear wall (5), one of the side walls (6), the base area (9), the ceiling area (10), the door inner wall (8).
- 9. The refrigerating appliance (1) according to any one of the preceding claims, characterised in that the appliance (1) has a housing (2) which is joined together from a plurality of housing panels (11) which also form inner walls (5, 6, 8, 9, 10) of the appliance (1).
- 10. The refrigerating appliance (1) according to claim 9, characterised in that one or a plurality of OLEDs (30) are applied to at least one of the housing panels (11) or integrated therein.
- 11. The refrigerating appliance (1) according to any one of the preceding claims, characterised in that the at least one OLED (30, 130, 230) comprises a substrate (32) and applied thereto an electrode (33), one or a plurality of layers of organic materials (33, 34, 35, 36) and a counterelectrode (37), wherein the substrate (32) comprises a transparent plate (19), especially a glass plate (19).
- 12. The refrigerating appliance (1) according to claim 10, characterised in that the refrigerating appliance (1) has a built-in component (13, 14, 15) with opposed surfaces (17, 18), in the case of a base plate (13) comprising an underside (18) and an upper side (17), wherein the opposed surfaces (17, 18) are each formed from transparent plates (19), forming substrates (32) of OLEDs (230) which are disposed between the transparent plates (19).
- 13. The refrigerating appliance (1) according to any one of the preceding claims, characterised in that the interior lighting comprises a plurality of

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OLEDs (30, 130, 230) with light-emitting layers (35) which each emit light having different colour spectra.

- 14. The refrigerating appliance (1) according to any one of the preceding claims, characterised in that the appliance (1) has a display panel (40) and/or control panel (41), which is backlit using at least one organic light-emitting diode (430).
- 15. The refrigerating appliance (1) according to any one of the preceding claims, characterised in that the appliance (1) has a display panel (40) for displaying symbols (44), the symbols (44) being formed by organic light-emitting diodes (330).